From: **Cynthia Caporale/ESC/R3/USEPA/US**
Sent: 2/24/2012 1:13:48 PM

To: Jill Bilyeu/ESC/R3/USEPA/US@EPA
CC: kevin Poff/ESC/R3/USEPA/US@EPA; Eric Graybill/ESC/R3/USEPA/US@EPA; Sue Warner/ESC/R3/USEPA/US@EPA; Stevie Wilding/ESC/R3/USEPA/US
Subject: QC Sign Off - WO# 1201015

Jill,

I plan to send out Part 2 of 3 report for WO# 1201015 Dimock (Organics) on Monday. We had several quality control outliers for this data set that caused qualification of results for SVOCs. Below is the report narrative. Please review and let me know if you need additional information. Your response to this email will be used as the sign-off unless you disagree.

Thanks,
Cindy

SVOCs Analysis Note:
All samples were extracted by EPA SW-846 Method 3520C followed by analysis using EPA SW-846 Method 8270D. Refer to notes in case file for additional information regarding the analysis.

Results for sample 1201015-26 are suspect. Although lab contamination does not seem to be the cause of these results (non-detected in lab blanks, no carry-over, all other QC acceptable); the low levels and type of compounds are indicative of possible contamination (e.g., specific glassware).

For this project two additional compounds are added to the SVOC analysis; 2-methoxyethanol and 1-methylnaphthalene. A separate calibration curve is used these compounds with quality control requirements per the On-Demand protocol. For 2-methoxyethanol, the analysis is also being completed on each sample using the HPLC/MS/MS technique (Glycol analysis). Since SVOC extraction efficiencies are problematic, the results from the HPLC/MS/MS technique should be used for these samples. For samples 1201015-11 thru 43 the blank spike (LCS) quality control samples did not include these two compounds. Therefore, all quantitation limits for these samples are qualified estimated "UJ."

For samples 1201015-01 thru -05, quantitation limits for 2,4-dinitrophenol, 2-methoxyethanol and hexachlorocyclopentadiene are elevated due to zero percent recovery in the low-spike quality control check. For all samples, quantitaion limits for 4,6-dinitro-2-methylphenol, 4-nitrophenol, 2,3,4,6-tetrachlorophenol are elevated due to zero percent recovery in the low-spike quality control check. For all samples, quantitation limit for pentachlorophenol is elevated due to low recovery in the low-spike quality control checks. Results for the mid-level quality control check are within acceptance limits; therefore, quantiation limits are raised to the mid-level value. In the report, only 16 compounds are reported for spike quality control check samples. Quality control information about the additional compounds is available in the case file.

Several surrogate recoveries were below acceptable limits for sample 1201015-41 due to an extraction chiller malfunction. Therefore, results for this sample are qualified as biased low "L" and all quantitation limits are qualified as estimated "UJ."

REPORT 2 of 3